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|--|------------------------|--------|-------------------|--|
| | Filing Date | | 2000-12-28 | |
| | First Named Inventor | Akihir | o Umezawa, et al. | |
| | Art Unit | | 1632 | |
| | Examiner Name | Josep | oh T. Woitach | |
| | Attorney Docket Number | | 00766.000043 | |

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| | 1 | OHLSTEIN, B., ET AL., "The Stem Cell Niche: Theme and Variations", Curr. Opin. Cell Biol., Vol. 16 (2004) 693-99. | | | | | | | | |
|--|---|---|--|-----------------------|------------|--|--|--|--|--|
| | | | | | | | | | | |
| | NYSTUL, T., ET AL., "Breaking Out of the Mold: Diversity Within Adult Stem Cells and Their Niches", Genetics & Dev., Vol. 16 (2006) 463-468 | | | | | | | | | |
| | 3 | NG, Y., ET AL., "Gene-expression profiling of CD34+ cells from various hemotopoietic stem-cell sources", Biology, Vol. 75 (2004) 314-23 | | | | | | | | |
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CERTIFICATION STATEMENT

| Please see 37 CFR 1.97 and 1.98 to mal | ce the appropriate sel | ection(s): |
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Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

□ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

| Signature | /Lawrence S. Perry/ | Date (YYYY-MM-DD) | 2007-09-24 |
|------------|---------------------|---------------------|------------|
| Name/Print | Lawrence S. Perry | Registration Number | 31,865 |

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